

Title (en)

Speed reducer, production method for speed reducer, roller bearing, crankshaft and production method for crank shaft

Title (de)

Getriebe, Verfahren zur Herstellung eines Getriebes, Wälzlager, Kurbelwelle und Verfahren zur Herstellung einer Kurbelwelle

Title (fr)

Réducteur de vitesse, procédé de fabrication d'un réducteur de vitesse, palier à roulement, vilebrequin et procédé de fabrication d'un vilebrequin

Publication

EP 1767815 A3 20070509 (EN)

Application

EP 06020035 A 20060925

Priority

- JP 2005278527 A 20050926
- JP 2005353269 A 20051207
- JP 2006055926 A 20060302

Abstract (en)

[origin: EP1767815A2] Disclosed is- a speed reducer which comprises a crankshaft adapted to be rotated in conjunction with a drive unit, a first eccentric portion provided on the crankshaft, a second eccentric portion provided on the crankshaft, a third eccentric portion provided on the crankshaft, a first externally-toothed gear adapted to be moved in conjunction with the first eccentric portion, a second externally-toothed gear adapted to be moved in conjunction with the second eccentric portion, a third externally-toothed gear adapted to be moved in conjunction with the third eccentric portion, a plurality of pin teeth disposed along an inner periphery of a case to allow each of the first, second and third externally-toothed gears to be in meshing engagement therewith, and an output shaft unit adapted to be rotated in conjunction with the first, second and third externally-toothed gears. The first, second and third eccentric portions are arranged with a given phase difference in a rotation direction of the crankshaft with respect to each other. In the speed reducer, each of the first, second and third externally-toothed gears is in meshing engagement with less than half of the plurality of pin teeth.

IPC 8 full level

F16C 3/08 (2006.01); **F16C 33/46** (2006.01); **F16C 43/06** (2006.01); **F16H 1/32** (2006.01)

CPC (source: EP US)

F16C 3/08 (2013.01 - EP US); **F16C 33/4664** (2013.01 - EP US); **F16C 33/54** (2013.01 - EP US); **F16C 43/06** (2013.01 - EP US); **F16H 1/32** (2013.01 - EP US); **F16C 19/26** (2013.01 - EP US); **F16C 2361/61** (2013.01 - EP US)

Citation (search report)

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- [YA] GB 2296751 A 19960710 - TEIJIN SEIKI CO LTD [JP]
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AL BA HR MK YU

DOCDB simple family (publication)

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